




Wasim Ansari

Machine Learning & AI Professional | IIT Madras Alumnus | Cross-Domain Expert


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 LinkedIn Profile  GitHub  Kaggle  Portfolio

Summary

Transitioning into Data Science & AI with a Diploma from IIT Madras and hands-on experience in ML projects across NLP, prediction systems and LLM-based AI agents. Backed by a multi-domain career in law, retail, real estate and international business across India, UK, and UAE. Bringing strong business insight to technical problem-solving. Passionate about building scalable AI solutions that deliver real-world impact.

Projects

Jurisol - AI Legal Assistant, *LLM based RAG application* 

- **Currently developing an AI Legal Assistant** to enhancing legal research efficiency and decision-making. Worked on major six Indian laws (Bare Acts), offering insights, procedures, loopholes and recommendations.
- **Implemented a Retrieval-Augmented Generation (RAG) system** using Mistral embeddings and Chroma Vector Store for semantic search enabling context-aware responses from a structured legal knowledge base.

Interview Prep Assistant (GenAI), *Personalized Mock Interview Generator using Mistral AI* 

- **Built an AI-powered Interview Prep Assistant** that generates mock interview questions & answers based on user input. Tailored for job role, experience level and interview stage to help users prepare confidently.
- **Used Mistral AI with LangChain**, Streamlit and custom prompt engineering to enable context-aware content generation; secured API access with environment variables for smooth user experience.

BikeValuePro (Machine Learning), *Bike Price Prediction App with 94.9% Accuracy* 


- **Trained a Machine Learning model** on real-world dataset, to predict used motorcycle prices, helping buyers & sellers make informed decisions. Delivers price insights, negotiation tips and explainable outputs.
- **Developed an end-to-end ML pipeline** using Python, XGBoost, Scikit-learn, and Streamlit with serialized model deployment (.pkl files), dynamic form inputs and responsive UI for real-time predictions.

My Photo Journal (GCP), *Flask Blog App Deployed on Google Cloud Run (Cloud SQL + Storage Integration)* 

- **Built and deployed a cloud-native blog application** allowing users to create and view posts with real-time image uploads delivered via a scalable, serverless architecture on Google Cloud Run.
- **Used Flask, Docker, and Google Cloud services** (Cloud SQL, Cloud Storage, Container Registry) to build a secure, containerized app with CI/CD readiness and responsive frontend using HTML/CSS.

Matchy (Dockerized NLP Service), *Text Similarity Detection App Using Word2Vec + XGBoost* 

- **Developed a text similarity detection system** to identify duplicate (e.g., Quora question pairs), enabling real-time predictions with probability scoring designed for integration into NLP-based search systems.
- **Built using Python, Flask, and XGBoost**, combining Word2Vec embeddings, fuzzy matching, and 21 engineered features; deployed via Docker with a modular API and modern UI for production-ready use.

Assignment Solver (AI Agent), *Autonomously Solve Graded Assignments in Memory* 

- **Developed an autonomous AI agent** that analyzes uploaded files (CSV, Excel, PDF, JSON, ZIP) using natural language prompts and generates real-time, structured responses - Built for IIT Madras Course Project.
- **Used FastAPI, Docker, and Mistral LLM** to build a secure, containerized REST API that generates, validates and executes Python code in a sandboxed environment and error-handling for robust performance.

System Threat Forecaster (Machine Learning), *Kaggle Competition organised by IIT Madras* [↗](#)

- **Built a supervised machine learning model** to detect malware in system, achieving top 5% ranking in a university Kaggle competition demonstrating strong model performance and threat classification accuracy.
- **Implemented Random Forest and XGBoost models** with EDA, feature engineering and hyperparameter tuning to improve detection accuracy and reduce false negatives.

Education

Indian Institute of Technology, Madras, <i>Diploma in Data Science</i> ↗	09/2024 – present
Savitribai Phule Pune University, <i>Bachelor of Laws, Law</i> ↗	2007 – 2012
S.G.R.R. Public School, Dehradun, <i>Intermediate, 12th Standard</i>	2004 – 2006
Children's Academy, Dehradun, <i>Matriculation, 10th Standard</i>	1997 – 2004

Certifications

- Understanding Google Cloud Platform [↗](#)
- Google Digital Marketing [↗](#)
- Dubai RERA Certification [↗](#)

Top Skills

LangChain — Competent	CI/CD for ML — Amateur
Data Analysis — Expert	Python — Proficient
Flask — Proficient	Retrieval-Augmented Generation — Competent
FastAPI — Competent	Docker — Competent
AI Agents — Beginner	Git/GitHub — Proficient
Pandas/Numpy — Proficient	Matplotlib/Seaborn — Competent
Deep Learning — Proficient Well versed with ANN/CNN/RNN	Machine Learning — Expert Thorough conceptual understanding.
Scikit Learn — Proficient	Tensorflow/Keras — Competent
Statistics — Expert	Linear Algebra — Expert

Experience

Machine Learning Specialist AI Solutions Developer, <i>Independent Contributor</i>	09/2024 – Present
<ul style="list-style-type: none">• Delivered 3+ end-to-end ML solutions including <i>BikeValuePro</i>, a used bike price predictor and <i>Matchy</i>, a text similarity engine both optimized with XGBoost, Dockerized, and deployed with user-friendly UIs using Streamlit and Flask.• Ranked in Top 5% globally in a Kaggle ML challenge by building robust threat detection models using Random Forest and XGBoost with advanced feature engineering organized by IIT Madras.• Built and deployed LLM-powered AI agents and RAG applications using Mistral, LangChain and Streamlit, automating document analysis, mock interview prep, and legal query resolution with sandboxed execution and semantic search.	Dehradun, Uttarakhand, India

- Retail Sales Manager, Booze Blitz - Ahaan Limited** 12/2022 – 09/2023
Hull, England, United Kingdom
- **Boosted revenue by 20%** through strategic sales planning and targeted campaigns that improved brand visibility and customer reach.
 - **Built strong supplier partnerships** by negotiating contracts aligned with company policies—enhancing supply chain efficiency and cost control.
 - **Improved operational performance** by budgeting, staffing, and safety protocols resulting in 25% fewer workplace incidents and better team productivity.
- Import Export Entrepreneur, Ahlan Exports** 09/2021 – 11/2022
Dehradun, Uttarakhand, India
- **Led product research and development** for handmade carpets, aligning with legal compliance to support business growth and informed decision-making.
 - **Ensured 100% global compliance** across custom manufacturing, packaging, and logistics reducing risk and improving export efficiency.
 - **Increased international sales and visibility** by delivering persuasive client pitches and launching digital marketing funnels boosting lead generation.
- Real Estate Consultant, FAHZAM Properties** 02/2015 – 01/2020
Dubai, United Arab Emirates
- **Analyzed property sourcing trends** to identify high-potential assets, ensuring 100% legal compliance and risk mitigation in procurement decisions.
 - **Leveraged digital marketing insights** to optimize online property campaigns, increasing client engagement by 25% and improving lead conversion metrics.
 - **Improved operational workflows** by managing end-to-end deal processes and enhanced decision-making, documentation templating and team efficiency.
- Legal Associate, QuisLex Legal Services** 09/2013 – 04/2014
Hyderabad, India
- **Reviewed legal documents using eDiscovery tools**, ensuring 100% compliance and proactively identifying risks to support regulatory decision-making.
 - **Delivered clear, data-informed reports** and represented the organization in client meetings, translating complex compliance updates into actionable insights.
- Research Associate-Citator, Mindcrest India** 12/2012 – 07/2013
Pune, India
- **Analyzed and processed legal cases** for online publication with focusing on precision; achieved 95% citation classification accuracy in half the average time.
 - **Recognized as top-performing associate** for consistently delivering high-quality results and staying updated through regular legal seminars and industry sessions.
- Junior Counsel, District Court of Dehradun** 05/2012 – 10/2012
Dehradun, India
- **Handled diverse legal cases** across property, matrimonial and criminal law ensuring professionalism and ethics like privacy and confidentiality.
 - **Provided formal legal services** and executed property-related deeds, supporting over 20+ clients in drafting, registration and record mutation.

Languages


Urdu	Hindi	English
Native or Bilingual	Native or Bilingual	IELTS 7 Band

Publications

Hallucinations in AI Legal Research: A Lawyer's Worst Nightmare? 

Declaration

The aforementioned information is true and correct to my knowledge and consent.


Wasim Ansari